



Standards *Actions*

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will provide selected reviewers with copies for comment. The full text of these documents is available on the Technical Standards Program (TSP) Web Site at the URL shown at the bottom of this page. If you wish to comment on these documents, please notify your TSM.

- *General Employee Radiological Training*, Project Number TRNG-0001; Peter O'Connell, EH-52; 301-903-5641, Peter.O'Connell@hq.doe.gov, comments due August 17, 1998.

DOE Documents Recently Published

The following DOE document was recently published:

- DOE-TSL-1-98, *Department of Energy Standards Index*, May 1998.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-5728.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-605-6000 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the bottom of this page. The following documents were recently added to the TSP Internet Home Page.

- DOE-TSL-1-98, *Department of Energy Standards Index*, May 1998.
- DOE-DP-STD-3023-98, *Guidelines for Risk-Based Prioritization of DOE Activities*, April 1998.

- DOE-STD-3022-98, *DOE HEPA Filter Test Program*, May 1998.

Non-Government Standards American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) bi-weekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email sbose@ansi.org. For further information on

distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Internet site (<http://www.ansi.org>) or through the National Standards System Network (<http://www.nssn.org>).

The following American National Standards are currently in coordination:

- A10.27, *Safety Requirements for Hot Mix Asphalt Facilities* (new standard); comments due August 5, 1998.
- ASME B20.1b, *Safety Standard for Conveyors and Related Equipment* (supplement to ANSI/ASME B20.1-1996); comments due August 5, 1998.

Technical Standards Program Document Status as of 6/30/98

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	52	21	1

Total in process = 73



Visit the Technical Standards Program Web Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- C63.14, *Dictionary for Technologies of Electromagnetic Compatibility (EMC), Electromagnetic Pulse (EMP), and Electrostatic Discharge (ESD)* (revision of ANSI C63.14-1992); comments due August 18, 1998.
- EIA SP-2959 (if approved, to be published as ANSI/EIA 700BA00), *Blank Detail Specification for Rectangular/Trapezoidal Connectors of Certified Quality* (new standard); comments due August 5, 1998.
- EIA SP-3896-1 (if approved, to be published as ANSI/EIA 633.31), *Power Line Physical Layer Conformance* (new standard); comments due July 5, 1998.
- FCI 68-1-1998, *Recommended Procedure in Rating Flow and Pressure Characteristics of Solenoid Valves for Gas Service* (new standard); comments due August 18, 1998.
- FCI 68-2-1998, *Recommended Procedure in Rating Flow and Pressure Characteristics of Solenoid Valves for Liquid Service (Including Determination of the Valve Flow Coefficient-CvKv)* (new standard); comments due August 18, 1998.
- IEEE 1127-1998, *Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility* (revision of ANSI/IEEE 1127-1990); comments due August 5, 1998.
- IEEE 1302, *Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range DC to 18 GHz* (new standard); comments due August 18, 1998.
- IEEE 1346-1998, *Recommended Practice for Evaluating Electrical Power System Compatibility with Electronic Process Equipment* (new standard); comments due August 5, 1998.
- IEEE 1374-1998, *Guide for Terrestrial Photovoltaic Power System Safety* (new standard); comments due August 5, 1998.
- IEEE 1406-1998, *Trial-Use Guide to the Use of Gas-In-Fluid Analysis for Electric Power Cable Systems* (new standard); comments due August 5, 1998.
- NACE MR0175, *Sulfide Stress Cracking Resistant Metallic Materials for Oilfield Equipment* (revision of ANSI/NACE MR0175-96); comments due August 18, 1998.
- UL 1581, *Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords* (revision of ANSI/UL 1581-1991); comments due August 5, 1998.
- UL 1673, *Standard for Safety for Electric Space Heating Cables* (revision of ANSI/UL 1673-1992); comments due August 18, 1998.

The following international standards are currently in coordination (comment due dates follow each entry):

- 36B/179/FDIS, IEC 614466-2, Ed. 1: *Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V - Part 2: Dimensional and electrical characteristics*, July 1, 1998.
- 44/228/FDIS, IEC 60204-32: *Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines*, July 1, 1998.

- 65B/347/FDIS, IEC 60534-2-1: *Industrial-process control valves - Part 2-1: Flow capacity - Sizing equations for fluid flow under installed conditions* - July 15, 1998.
- EN 60086-1:1997/prA1:1998, *Primary batteries - Part 1: General* (IEC 60086-1:1996/A1:1998) - September 7, 1998.
- ISO/DIS 4343, *Numerical control of machines - NC processor output - Post processor commands* - August 22, 1998.
- ISO/DIS 6182-1, *Fire protection - Automatic sprinkler systems - Part 1: Requirements and test methods for sprinklers* - September 5, 1998.
- ISO/DIS 6182-7, *Fire protection - Automatic sprinkler systems - Part 7: Requirements and test methods for Early Suppression Fast Response (ESFR) sprinklers* - September 5, 1998.
- ISO/DIS 6942, *Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat* - August 15, 1998.
- ISO/DIS 10464, *Gas cylinders - Refillable welded steel cylinders for LPG - Periodic requalification* - August 15, 1998.
- ISO/DIS 11151-2, *Lasers and laser-related equipment - Standard optical components - Part 2: Components for the infrared spectral range* - September 5, 1998.
- ISO/DIS 12721, *Non-destructive testing - Thermal neutron radiographic testing - Determination of beam L/D ratio* - August 29, 1998.
- ISO/DIS 13943, *Fire safety - Vocabulary* - August 15, 1998.
- ISO/DIS 15202-1, *Workplace air - Determination of metals and metalloids in airborne particulate matter by inductively coupled plasma atomic emission spectrometry - Part 1: Sampling* - August 22, 1998.
- ISO/DIS 16368, *Mobile elevating work platforms - Design calculations, safety requirements and test methods* - August 29, 1998.
- ISO/DIS 16369, *Lifting platforms - Mast climbing work platforms* - August 29, 1998.
- prEN 10293-1, *Steel castings for structural and general engineering uses - Part 1: General* - September 16, 1998.
- prEN 10296-1, *Welded steel tubes for mechanical and general engineering purposes - Technical delivery conditions - Part 1: Non-alloy and alloy steel tubes* - September 23, 1998.
- prEN 13087-8, *Protective helmets - Test methods - Part 8: Electrical properties* - September 23, 1998.
- prEN 13202, *Ergonomics of the thermal environment - Temperatures of touchable hot surfaces - Guidance for establishing surface temperature limit values in production standards with aid of EN 563* - September 16, 1998.
- prEN 5030:1998, *Equipment intended for use in potentially explosive atmospheres - Group 1 - Category 'M1' - Equipment intended for use in atmospheres susceptible to fire-damp* - September 7, 1998.

- prEN 50133-2-1:1998, *Alarm systems - Access control systems for use in security applications - Part 2-1: General requirements for components* - September 7, 1998.
- prHD 384.4.443 S1:1998, *Electrical installations of buildings - Part 4: Protection for safety - Chapter 44: Protection against overvoltages - Section 443: Protection against overvoltages of atmospheric origin or due to switching* (IEC 60364-4-443:1995, modified) - September 7, 1998.

The following newly published international standards are available from ANSI:

- IEC 60079-0 Ed. 3.0 b:1998, *Electrical apparatus for explosive gas atmospheres - Part 0: General requirements*.
- IEC 61526 Ed. 1.0 b:1998, *Radiation protection instrumentation - Measurement of personal dose equivalents $H_p(10)$ and $H_p(0,07)$ X, gamma and beta radiations - Direct reading personal dose equivalent and/or dose equivalent rate dosimeters*.
- IEC 61724 Ed. 1.0 en:1998, *Photovoltaic system performance monitoring - Guidelines for measurement, data exchange and analysis*.
- IEC 61810-5 Ed. 1.0 b:1998, *Electromechanical non-specified time all-or-nothing relays - Part 5: Insulation coordination*.
- ISO 701:1998, *International gear notation - Symbols for geometrical data*.
- ISO 3651-1:1998, *Determination of resistance to intergranular corrosion of stainless steels - Part 1: Austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)*.
- ISO 9283:1998, *Manipulating industrial robots - Performance criteria and related test methods*.
- ISO 10816-3:1998, *Mechanical vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15 000 r/min when measured in situ*.
- ISO 11731:1998, *Water quality - Detection and enumeration of Legionella*.
- ISO 13464:1998, *Simultaneous determination of uranium and plutonium in dissolver solutions from reprocessing plants - Combined method using K-absorption edge and X-ray fluorescence spectrometry*.
- ISO 13686:1998, *Natural gas - Quality designation*.
- ISO 13752:1998, *Air quality - Assessment of uncertainty of a measurement method under field conditions using a second method as reference*.
- ISO 14050:1998, *Environmental management - Vocabulary*.

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in ASTM *Standardization News*. Orders for subscriptions or single copies of ASTM

Standardization News may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). Additional information on ASTM activities is available on the ASTM Internet site (<http://www.astm.org>). The following listings are extracted from ASTM *Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination: (the due date for all items is July 10, 1998).

- New Standard, *Practice for Collection of Samples of Filterable and Non Filterable Matter in Water* (Ref. Z2953Z).
- New Standard, *Test Method for Rate of Water Absorption of Masonry Mortars* (Ref. Z4397Z).
- New Standard, *Practice for Certificates of Reference Materials for Water Analysis* (Ref. Z5675Z).
- New Standard, *Test Method for Carbon (Total) in Uranium Oxide Powders and Pellets by Direct Combustion-Infrared Detection Method* (Ref. Z5935Z).
- C 1109-93, *Test Method for Analysis of Aqueous Leachates From Nuclear Waste Materials Using Inductively Coupled Plasma-Atomic Emission Spectrometry* (revised standard).
- C 1220-92, *Test Method for Static Leaching of Monolithic Waste Forms for Disposal of Radioactive Waste* (revised standard).
- D 638-97, *Test Method for Tensile Properties of Plastics* (revised standard).
- D 746-95, *Test Method for Brittleness Temperature of Plastics and Elastomers by Impact* (revised standard).
- D 883-96, *Terminology for Abbreviated Terms Relating to Plastics* (revised standard).
- D 1129-90 (1995), *Terminology Relating to Water* (revised standard).
- D 1600-97, *Terminology for Abbreviated Terms Relating to Plastics* (revised standard).

The following newly published standards are available from ASTM:

- B 884-97, *Specification for Niobium-Titanium Alloy Billets, Bar, and Rod for Superconducting Applications*.
- C 1370-97, *Test Method for Determining the Acceptability of Aggregates for Use in Sulfur Polymer Cement Concrete* (new standard).
- D 4532-97, *Test Method for Respirable Dust in Workplace Atmospheres* (revised standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

Underwriters Laboratories, Inc.

Office: 1655 Scott Boulevard
Santa Clara, CA 95050

Fax: 408-556-6045

Contact: Iris Long-Hood, long-hoodi@ul.com

- UL 10C, *Standard for Safety for Positive Pressure Fire Tests of Door Assemblies* (new standard).
- UL 3121-1, *Standard for Safety for Process Control Equipment* (new standard).

Office: 12 Laboratory Drive
Research Triangle Park, NC 27709

Fax: 919-547-6183

Contact: Kay Dietrich, dietrichk@ul.com

- UL 61496-1, *Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests* (new standard).

- UL 61496-2, *Standard for Safety for Electro-Sensitive Protective Equipment, Part 2: Particular Requirements for Equipment Using Active Opto-electronic Protective Devices* (new standard).

Contact: Regina Hudock, hudockr@ul.com

- UL 2167, *Standard for Safety for Water Mist Extinguishing System Units* (new standard).

Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email Richard.Serbu@eh.doe.gov. If you have any questions or comments on DOE standards projects, please contact Don Spellman, Oak Ridge National Laboratory (ORNL), 423-574-7891, FAX 423-574-0382, Email spellmandj@ornl.gov.

Addresses: To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423-574-0382, Email mmf@ornl.gov.

Technical Standards Activities: The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email lj8@ornl.gov.



Standards *Actions*

United States Department of Energy

Office of Scientific and Technical Information

Post Office Box 62

Oak Ridge, TN 37831